

## Native Bovine Glutathione Peroxidase

Cat. No. NATE-0322

Lot. No. (See product label)

### Introduction

#### Description

Glutathione peroxidase is an enzyme which reduced lipid hydroperoxides into their corresponding alcohols. It also reduces free hydrogen peroxide in to water. In vivo it is responsible for protecting hemoglobin from oxidative breakdown.

#### Applications

Glutathione peroxidase from bovine erythr ocytes was used as a positive control in cloning and characterization of full-length cDNAs encoding two glutathione peroxidases (GpXs) from *Globodera rost ochiensis*. It was used for the determination of glutathione peroxidase activity in human milk.

#### Synonyms

EC 1.11.1.9; GSH peroxidase; selenium-glutathione peroxidase; reduced glutathione peroxidase; 9013-66-5; GSH-Px, Glutathione:hydrogen-peroxide oxido-reductase; Glutathione Peroxidase

### Product Information

#### Species

Bovine

#### Source

Bovine erythr ocytes

#### Form

Lyophilized powder containing 25% sucrose and 2.5% dithiothreitol with sodium phosphate buffer salts

#### EC Number

EC 1.11.1.9

#### CAS No.

9013-66-5

#### Molecular Weight

mol wt 84.5 kDa

#### Activity

> 300 units/mg protein

#### Unit Definition

One unit will catalyze the oxidation by H<sub>2</sub>O<sub>2</sub> of 1.0 μmole of reduced glutathione to oxidized glutathione per min at pH 7.0 at 25°C.

### Storage and Shipping Information

#### Storage

–20°C